

COOLING SYSTEM FOR AN ELECTRONIC DISPLAY

ABSTRACT OF THE DISCLOSURE

A cooling system for an electronic display may include a heat collector plate with internal gas and liquid phase lines. The cooling plate may be thermally isolated together
5 with electronic components of the display within an enclosure of the display, while external lines carry liquid and gas phase refrigerant outside the enclosure to and from the heat collector plate. The external lines may be similar in size to each other and may be connected to the heat collector outside the heat collector plate by a manifold. The heat collector plate contacts a base plate of the electronic display in a thermally conductive
10 relation to transfer heat from electronic components within the display to the gas phase refrigerant. Fans may be included for additional convective heat transfer. A single compressor may be fluidly connected to multiple heat collector plates in respective electronic displays.

